

PROGRAMME ACTIVITY REPORT

Online Training Programme on Good Agricultural Practices, Replanting Programme and Integrated Pest Management to Sustain Coconut Development

03 November 2020

Zoom Meeting Platform

Executive Summary

- 1. The Non-Aligned Movement Centre for South-South Technical Cooperation (NAM CSSTC) and the International Coconut Community (ICC) have provided training to the Africa, Asia, Caribbean, Middle East and the Pacific member countries, moderated by Vincent Bernard Johnson from the Coconut Genetic Resources Network (COGENT) which involved presentations by resource persons and discussion between participants and resources persons on good agricultural practices, replanting programmes and integrated pest management to sustain coconut development.
- The training results indicated that farmers need government financing and funding to control pests through the implementation of largescale trapping programmes.

INTRODUCTION

The Non-Aligned Movement Centre for South-South Technical Cooperation (NAM CSSTC) and the International Coconut Community (ICC) have provided training to the Pacific, Middle East, Africa, Asia and Caribbean member countries. Practices of good agriculture, replanting programmes and integrated management have been introduced to trainees to support coconut production.

LOCATION AND TIME

The training took place online via the Zoom Meeting Platform on 3rd of November, 2020. The training programme, led by Mr. Vincent Bernard Johnson, moderator from the Coconut Genetic Resources Network (COGENT) involved presentations by resource persons and discussion between participants and resources persons.

TRAINING AGENDA

Appendix 1 demonstrates the training agenda.

RESULTS AND DISCUSSIONS

- It is hard to find a Good Agricultural Practices (GAPs) model. But components are available to construct a model. The existing practices is already excellent in India. However, this is only at the stage of research. The research result was primarily intended for use in the area observed. ICC, NAM CSSTC and other relevant parties therefore should generate the most current syntheses of extension knowledge on GAPs.
- Central Plantation Crops Research Institute (CPCRI) India encourages biologically fertilising bacteria. Bio-fertiliser application could also enhances growth. There is particular type of fungus (bio-inoculant) which increase the nutrient capacity of the soil.
- In addition to fertilisers, the planting of coconut should take sunlight into account. Plenty of sunlight, especially when the plant is grown in polybags, is essential requirement for any plant. It generates mostly healthier seedlings.
- Flood irrigation is not recommended due to the water volume and how diseases could spread by the flood.
- In contrary to GAPs, Integrated Pest Management (IPM) technology may be applicable for other countries.
- In coconut plants there are different forms of pests and diseases. When the tree reaches 3 – 15 years of age, beetle, mites, rodents will damage the coconut. Various pests and diseases will bring various losses at

- different stages. The beetle is not serious until the tree reaches certain ages.
- To fully control the Rhinocerous beetle, naturally, farmers need to conduct IPM. Sri Lanka conducts an integrated approach when it comes to the Rhinocerous. The reason is because although the pests are in small yard, farmer who owns the yard cannot get rid of Rhinocerous simply by eradicating the breeding sites in the yard, since the beetles can normally move a lot. Beetles from other places can come to the yard. So farmers must form part of a strategy focused on the community. Farmers need government funding and support for various locations in small plantations, so that the government carries out large-scale trapping programmes. In Sri Lanka, the government has pheromone traps mounted. Sri Lanka concurrently uses integrated methods in a wide variety. It sets up large-scale pheromone traps covering 25 or more hectares.
- Rodents are number one pest that can bring damage to palm tree. To control rodents, farmers could use baiting and banding the tree, especially if the farmers already have correctly spaced coconut tree. In baiting, farmers could use toxic chemicals. At the stage of seedling, farmers could cover the seedling with ionics.
- Based on experience in Sri Lanka, fly also damages coconut tree. To date, Sri Lanka has seen three species, white flies are one among them. For some reason after season changes, the population of white flies has decreased and does not cause substantial coconut damage. Towards coconut researchers, Sri Lanka has several missions / projects to do.

EVALUATION

The assessment carried out with the participants showed:

- 67.6% of respondents reported receiving infomation about the training agenda before the start of training;
- 64.7% of respondents reported communication between participants were facilitated:

- 66.2% of respondents have indicated that the training is highly sensitive to participants' needs;
- 73.5% of respondents said that the training led to the advancement of participants in terms of education, professional or personal skills;
- 61% of respondents reported the training content was well organised and easy to follow;
- 61.8% of respondents showed great interest until the end of the training;
- 72.8% of the respondents said that the resource persons understood the subjects they raised;
- 74.3% of respondents reported the resource persons were wellprepared;
- A total of 67.6% respondents reported that training delivery is closely linked to the goals to be achieved;
- 42.6% of the respondents reported ample time allocation;
- 58.8% of respondents identified effective management of the Zoom Meeting platform.

Participants' Notes on the Sub-Topics

The information the speakers provided was understood by most of the participants. Several participants noted the importance for further clarification of bio-inoculants, lethal yellowing disease and fertilisers.

Participants' Interests in the Training Topic

To improve their capacities, participants intend to use their learnings about GAPs, particularly on crops selection and intercrop. They may want to use the information learned on the management of seeds, fertilisers, IPMs and some products from coconut derivatives. One participant expressed interest in exploring diagnostic tools, in particular regarding their application if accessible in the individual's country.

The participants were very interested in the presentation by the speaker from the University of Queensland, namely on the diagnostic method and ability to provide satellite-based surveillance of lethal yellowing in coconuts. Participants plan to participate in future meetings if IPM

researchers have new findings. Participants would like to hear more about replanting programmes.

Suggested Topics for the Next Training

59.6% of respondents recommended a quality control for processed coconut training. Other respondents recommended training on virgin coconut oil processing, coconut coir processing and marketing opportunities and coconut beverage processing and packaging.

CONCLUSION

It can generally be inferred that about 64.6% of participants expressed satisfaction with the training. The participants were very interested in the presentation on the diagnostic method and ability to provide satellite-based surveillance of lethal yellowing in coconuts. Respondents recommended a quality control for processed coconut training as well as training on virgin coconut oil processing, coconut coir processing and marketing opportunities and coconut beverage processing and packaging.

AGENDA



Online Training Program



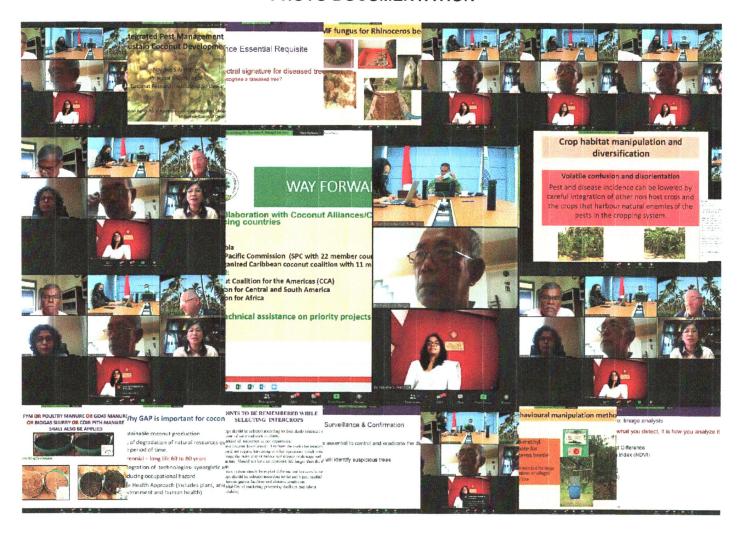
Good Agriculture Practices, Replanting Program and Integrated Pest Management to Sustain Coconut Development

TIME SCHEDULE

Tuesday, November 3rd 2020 | 14.00 Hrs. - 16.00 Hrs. (Jakarta Time)

| EVENT | PERSON | TIME |
|---|--|------------|
| Introduction of Program | MR. VINCENT JOHNSON Interim COGENT Coordinator, ICC | 3 Minutes |
| Invitation for the Welcome Speech | MR. VINCENT JOHNSON Interim COGENT Coordinator, ICC | 1 Minutes |
| Welcome Speech | DR. JELFINA C. ALOUW Executive Director, ICC | 5 Minutes |
| Presentation: "Sustainable Coconut Development for Better Future" | DR. PONCIANO A. BATUGAL Chair ICCTechnical Working Group | 15 Minutes |
| Presentation: "Good Agriculture Practices to Sustain Coconut Development" | DR. P. SUBRAMANIAN Principal Scientist CPCRI, India | 15 Minutes |
| Presentation: "Integrated Pest Management to Sustain Coconut Development" | DR. NAYANIE S. ARATCHIGE Principal Entomologist CRI, Sri Lanka | 15 Minutes |
| Presentation: "Satellite-Based Surveillance Method for Lethal Yellowing Disease and Tool for Detecting LYD" | PROF. JIMMY BOTELLA Professor of Plant Biotechnology The University of Queensland Brisbane Australia | 15 Minutes |
| Discussion | Moderator & Participants | 45 Minutes |
| Invitation for the Closing Remarks | MR. VINCENT JOHNSON Interim COGENT Coordinator, ICC | 1 Minutes |
| Closing Remarks | AMBASSADOR DIAR NURBINTORO Acting Director, NAM CSSTC | 5 Minutes |

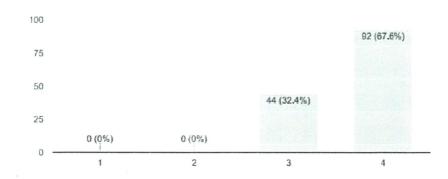
PHOTO DOCUMENTATION



SURVEY STATS

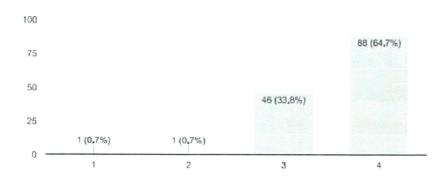
The curriculum / agenda was clearly specified.

136 responses

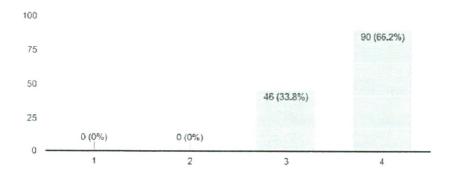


The organisers facilitated contact between participants.

136 responses

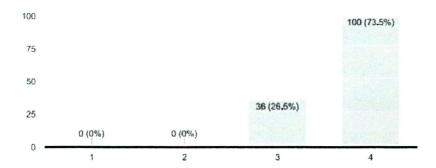


The training was attentive to participants' needs.



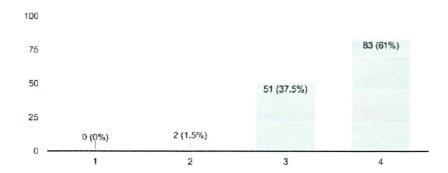
The training contributes to my education, professional and/or personal growth.

136 responses

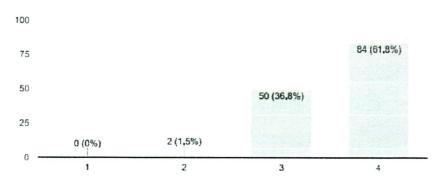


The contents were well arranged and easy to follow.

136 responses

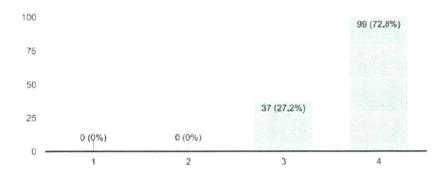


The training kept me engaged and interested.



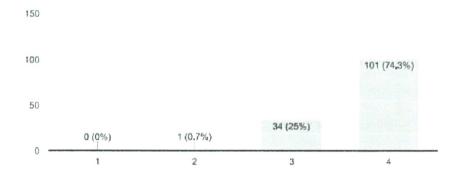
The trainers were familiar with the topics of training.

136 responses

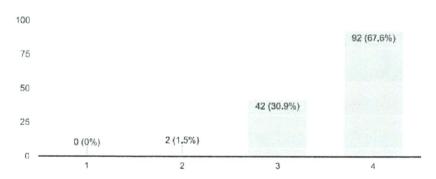


The trainers were well prepared.

136 responses

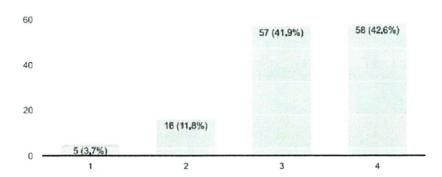


The activities related to the goals of training.

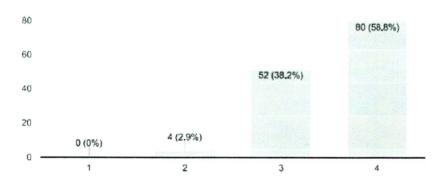


The training time allocation was enough.

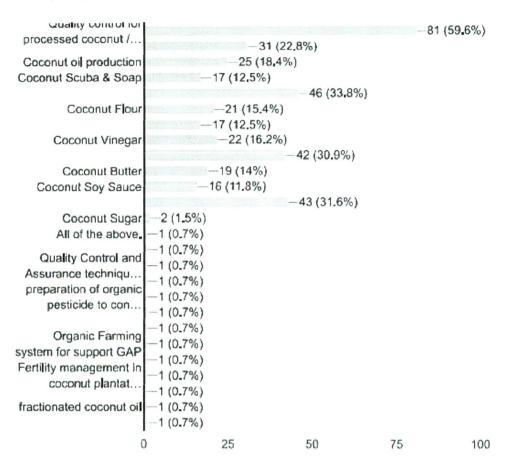
136 responses



The management of the zoom meeting was convenient.



What coconut training topic(s) are you looking for in the future?



"STAY HEALTHY AND PRODUCTIVE DURING COVID-19 PANDEMIC" ONLINE TRAINING SERIES AND WEBINAR PROJECT 2020

LIST OF PARTICIPANTS' COUNTRY OF ORIGIN

IN THE IMPLEMENTATION OF THE "GOOD AND AGRICULTURAL PRACTICES, REPLANTING PROGRAMMES AND INTEGRATED PEST MANAGEMENT TO SUSTAIN COCONUT DEVELOPMENT' ONLINE TRAINING, EXTENSION OFFICERS, RESEARCHERS, COCONUT PRODUCERS AND INDIVIDUALS FROM THE FOLLOWING COUNTRIES REGISTERED:

MEMBER COUNTRIES OF THE NON-ALIGNED MOVEMENT (NAM) AND / OR MEMBER COUNTRIES OF THE INTERNATIONAL COCONUT COMMUNITY (ICC)

| NO. | COUNTRY (<i>In Alphabetical Order</i>) | NUMBER OF PERSON(S) |
|-----|---|---------------------|
| 1. | FIJI | 1 |
| 2. | GUYANA | 2 |
| 3. | INDIA | 21 |
| 4. | INDONESIA | 29 |
| 5. | JAMAICA | 1 |
| 6. | MICRONESIA (FEDERATED STATES OF) | 1 |
| 7. | MOZAMBIQUE | 3 |
| 8. | MYANMAR | 1 |
| 9. | PAPUA NEW GUINEA | 1 |
| 10. | PHILIPPINES | 115 |
| 11. | SAUDI ARABIA | 1 |
| 12. | SRI LANKA | 9 |
| 13. | SURINAME | 1 |
| 14. | TANZANIA | 4 |
| 15. | THAILAND | 1 |
| 16. | TONGA | 1 |

PARTICIPANTS' BACKGROUND

| NO. | BACKGROUND | NUMBER OF PERSON(S) |
|-----|------------------|---------------------|
| 1. | GOVERNMENTAL | 113 |
| 2. | HIGHER EDUCATION | 36 |

"STAY HEALTHY AND PRODUCTIVE DURING COVID-19 PANDEMIC" ONLINE TRAINING SERIES AND WEBINAR PROJECT 2020

| NO. | BACKGROUND | NUMBER OF PERSON(S) |
|-----|------------------------------------|---------------------|
| 3. | PRIVATE SECTORS, INTERGOVERNMENTAL | 42 |
| | ORGANISATIONS, OTHERS | |